

west virginia department of environmental protection

Office of Oil and Gas 601 57th Street SE Charleston, WV 25304 (304) 926-0450 (304) 926-0452 fax Earl Ray Tomblin, Governor Randy C. Huffman, Cabinet Secretary www.dep.wv.gov

July 12, 2013

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-4702062, issued to CABOT OIL & GAS CORPORATION, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalities being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.

James Martin

Chief

Operator's Well No: POCA LAND M-124

Farm Name: POCAHONTAS LAND CORP.

API Well Number: 47-4702062

Permit Type: Plugging
Date Issued: 07/12/2013

WW-4B Rev. 2/01

1)Date	May 22	,	20 13
2)Opera	tor's		
Well	No. Poc	ahontas L	and M-124
3) API W	Mell No.	47-047	- 02062

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

APPLICATION FOR A PERM	III TO PLOG AND ABANDON
4) Well Type: Oil/ Gas X/ Liquid	
(If "Gas, Production or Und	erground storage) Deep/ Shallow_X
5) Location: Elevation_2,136.09'	Watershed Tug Fork River
District Adkin o\	County McDowell 41 Quadrangle Welch 665
6) Well Operator Cabot Oil & Gas Corporation	7)Designated Agent_Brian Hall
Address Five Penn Center, West, Ste. 401	Address 6804 Lick Creek Road
Pittsburgh, PA 15276	Danville, WV 25053
8) Oil and Gas Inspector to be notified	9) Plugging Contractor
Name_ Gary Kennedy	Name_Francis Brothers, LLC
Address 120 North Ridge Street	Address 622 Church St. N
Bluefield, WV 24701	Ripley, WV 25271
See Attached Procedure. PLUG 4 2 5 CEMENT PLUGS	URED TO BE EXPANDING
	Roca
	roceived
Notification must be given to the district oi work can commence.	l and gas inspector 24 hours before permitted MAY 2 3 2013
Work order approved by inspector	Office of Oil and Gas WV Derbat €nvironmental Protection

POCAHONTAS LAND M-124 API # 47 - 047 - 02062 PLUGGING PROCEDURE

Current Configuration

DTD @ 4940'

20" conductor @ 44' KB, not cemented

 $13^{3}/_{8}$ " — 37# LS casing @ 469' KB, cemented to surface

 $9^{5}/_{8}$ " — 26# LS casing @ 1229' KB, cemented to surface

7" - 20" LS casing @ 1625' KB, cemented to surface

4 ¹/₂" - 10.5# - M-60 casing @ 4875' KB w/ TOC @ 4020'

 $2^{3}/8^{\circ}$ – EUE tubing @ 4703' KB

Baker 2 3/8" x 4 1/2" packer set @ 3961'

Gordon perforations: 4733' - 4736', 4764' - 4768', & 4764' - 4768'

Berea perforations: 4628' – 4631' & 4649' – 4655' Big Lime formation: 3458' – 4004' (not perforated) Ravencliff formation: 2000' – 2032' (not perforated) Coal @ 327' – 331 (open mine) & 1134' – 1137'

Fresh water @ 331', 480', 570', & 1134'

PROCEDURE

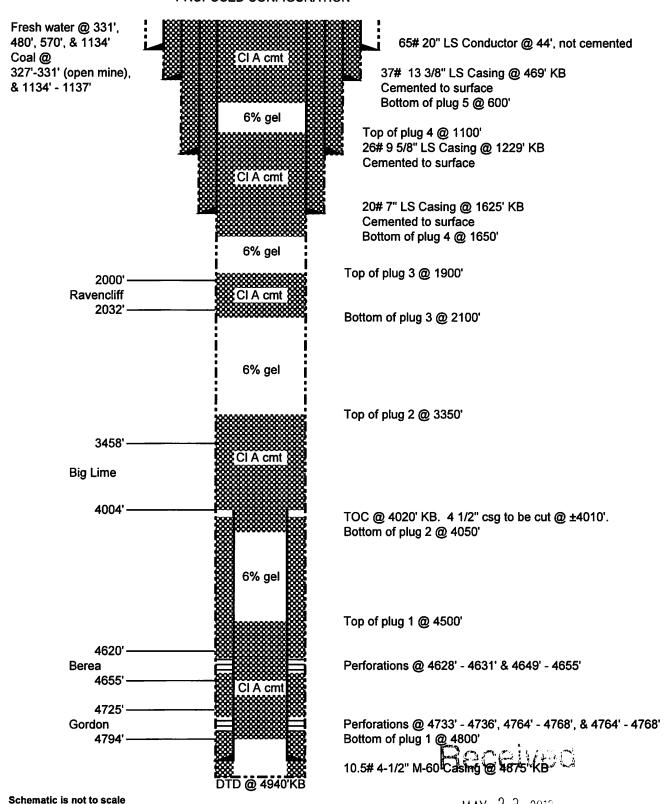
- 1. Contact Pineville District Office a minimum of 48 hours prior to starting work
- 2. Contact state inspector a minimum of 24 hours prior to starting work.
- 3. MIRU service rig and blow down well.
- 4. Lay 2" line from wellhead to pit/tank and stake down securely. Vent 4-1/2" x 7" annulus.
- 5. Unpack wellhead and ensure tubing is free and can be pulled.
- 6. Run rig tools to determine well TD and note any fluid level.
- 7. Unseat packer by setting down and turning right. (packer set @ 25,000#, shear @ 30,000#)
- 8. POOH with tubing.
- 9. RIH with tubing to approximately 4800' with three additional joints of tubing.
- 10. MIRU Cementing Company.
- 11. Pump 5 barrels of 6% Gel.
- 12. Pump 23 sacks of Class A cement for Cement Plug 1 from 4800' to 4500'.
- 13. Displace with 17 bbls of 6% Gel.
- 14. POOH with tubing and let cement plug set for a minimum of eight hours.
- 15. Run freepoint and cut 4 ½" casing where free. Estimate ±4010'. POOH with casing.
- 16. TIH with tubing to 4050' and pump 50 barrels of 6% Gel.
- 17. Pump 127 sacks Class A cement for Cement Plug 2 from 4050' to 3350'.
- 18. Displace with 13 bbls of 6% Gel.
- 19. Pull tubing up to 2100' and pump 38 sacks of Class A cement for Cement Plug 3 from 2100' 1900'.
- 20. Displace with 7 bbls of 6% Gel.
- 21. Pull tubing up to 1650' and pump 106 sacks of Class A cement for Cement Plug 4 from 1650' 1100'
- 22. Displace with 4 bbls of 6% Gel.
- 23. Pull tubing up to 600' and pump 115 sacks of Class A cement for Cement Plug 5 from 600' to surface.
- 24. TOOH with tubing and lay down.
- 25. RDMO Cement company
- 26. Erect Monument according to Law.
- 27. RDMO.

Received

MAY 2 3 2013

Pocahontas Land M-124

API 47-047-02062 PROPOSED CONFIGURATION



MAY 2 3 2013 TON 02/05/13

WR-35						Date API#	47- 0	July 1	2062, ;;)
		Divisio	Section of Oil	ental Protection		AFI#			2 002, 10 1
Farm Name:	Poc	ahontas Land Co	orp.	Operator Well	No.:	Pocah	ontas Land	M-12	4
LOCATION:	Elevation: District: Latitude: Longitude	•		81° DEG.	27' 32'	Welc McDov MIN. MIN.	veli 30" Si	EC. EC.	
				Casing & Tubing Size	Used in	Drilling	Left In W		Cement Fill Up Cu. Ft.
Company:	900 Lee Stree	as Corporation et East, Suite 500)	20"	4		44'		N/A
	Charleston, V	/V 25301		13 3/8"	46	51'	461'		534
Agent: Inspector:		Thomas S. L Barry Sto	ollings	9 5/8"	12	28'	1228'		483
Permit Issued Well Work Co	mmenced:	4/29/20 June 6,	2005	7"	16	24'	1624'		359
Well Work Co Verbal Pluggi		June 28,	2005	4 1/2"			4876'		118
Permission g Rotary X				2 3/8"			4703'		
Total Depth (Depths (ft)	493 331', 480', 5	70', 1134'						
	mined in area (None rep Y / N) ? Y (Open), 1134'-11							,
OPEN FLOW		Open/, 1134-11	<u> </u>						
Producing F	ormation	Gordo	n	Pay Z		'33'_A736	s', 4764'-47	בע ים	770' 4704'
Gas: Initial C		N/A	MCF/d		nitial Ope				Bbl/d
	pen flow betwe	750 (COMMINGL on initial and fina			inal Ope		0		Bb!/d
Static rock pr	essure	540 psi	g surface pres		16	Hours			
Second Prod	ducing Format	ion	Berea	Pay Z Depth		4649'-4	655 ', 4628'	-4631'	····
	pen Flow pen flow betwe	N/A 750 (COMMING on Initial and fina 540 psi		I F 264	nitial Ope inal Oper	n Flow Hours	0		Bbi/d Bbi/d
NOTE: ON BA	ACK OF THIS FO B, PHYSICAL CH	RM PUT THE FOL ANGE, ETC. 2.) G COAL ENCOUN	LOWING: 1.) I	DETAILS OF PE WHICH IS SYS	RFORATE	DETAILE	VALS, FRAGED GEOLOG	CTURII GICAL I	NG OR RECORD OF
Pic	ooive	ď	By: Date:	7/13/	105	\in	Drilling	g Supe	erintendent
M.A	NY 2 3 2013							•	**************************************

Office of Oil and Gas WV Dept. of Environmental Protection 07/12/2013

Welch 5

STAGE	PERFS	ACID 15% HCI	FOAM		NITROGEN (scf)	BDP	ATP	MTP	ISIP
1-Gordon	4733-4736 (40) 4764-4768 4772-4784	250 gal	75Q	55,350	584,000	1556	1633	1792	1450
2-Berea	4649-4655 (24) 4628-4631 (12)	1000 gal	75Q	60,000	533,000	1392	1449	1648	1370

named to the second of the sec

FORMATION	TOP	BOTTOM	REMARKS	
Sand & Shale	0	327	· /m//4/1/ // ///	
Coal (Open)	327	331		
Sand & Shale	331	1134		
Coal	1134	1137		
Sand & Shale	1137	1758		
Pride	1758	1930		
Silty Shale	1930	2000		
Ravencliff	2000	2032		
Silty/Sandy Shale	2032	2112		
Avis	2112	2158		
Silty/Sandy Shale	2158	3112		
Shale	3112	3192		
Little Lime	3192	3272		
Pencil Cave	3272	3458		
Big Lime	3458	4004		
Silty Shale (Pocono)	4004	4295	•	
Shale	4295	4620		
Berea	4620	4655		
Silty Shale	4655	4725		
Gordon	4725	4794		
Silty Shale	4794	4937	TD	



MAY 2 3 2013

07/12/2013

Office of Oil and Gas

WW-4A Revised 6-07

4) Surface Owner(s) to be served:

1) Date:	May 22, 2013	
2) Operator	's Well Number	
Pocahontas	Land M-124	

3) API Well No.: 47 -

- 02

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

5) (a) Coal Operator

(a) Name	Pocahontas Land Corporation	Name	See Attached Sheet
Address	P.O. Box 1517	Address	
	Bluefield, WV 24701		0
(b) Name		(b) Coal Ow	vner(s) with Declaration
Address		Name	Pocahontas Land Corporation
	<u> </u>	Address	P.O. Box 1517
			Bluefield, WV 24701
(c) Name		Name	
Address		Address	
6) Inspector	Gary Kennedy	(c) Coal Les	ssee with Declaration
Address		268 Name	See Attached Sheet
11441000		IT2,WV Address	
Telephone	(304) 382-8402	25978	
•			
TO THE PER	SONS NAMED AROVE	· Vou abould have you	eived this Form and the following documents:
10 IIIE I EI	ISONS NAMED ABOVE.	. Tou should have rece	erved this Form and the following documents:
(1) The ar	onligation to Plug and Abandon a Wall	on Form WW-4R which	sets out the parties involved in the work and describes the
	s and the plugging work order; and	on rorm ww-4b, which	sets out the parties involved in the work and describes the
(2) The pl	at (surveyor's map) showing the well lo	cation on Form WW-6.	
The reason v	on received these documents is that you have	ve rights regarding the applic	cation which are summarized in the instructions on the reverses side.
	a are not required to take any action at all.	e rights regarding the applie	auton which are summarized in the instructions on the reverses side.
			operator proposes to file or has filed this Notice and Application and e Office of Oil and Gas, West Virginia Department of Environmental
			on and depicted on the attached Form WW-6. Copies of this Notice,
the Applicati	on, and the plat have been mailed by regis	tered or certified mail or del	livered by hand to the person(s) named above (or by publication in
certain circur	nstances) on or before the day of mailing or o	delivery to the Chief.	
		tor Cabot Oil & Gas	
	By:	Kenneth L. Marc	
COMMONWE	ALTH OF PENNSYLVANIA Notarial Seal	Regulatory Supe	
C+	Notarial Seal Address		er West, Suite 401
McDonald I	C. Carden, Notary Public Boro, Washington County Telephone	Pittsburgh, PA	15276
My Commiss	Sion Expires Nov. 16, 2013	(412) 249-3850	
Member, Penns	/Ivania Association of Notaries		
		Sc. 52 CE CE AND	Received
Subscribed and s	worn before me this 22nd	day of May, 2013	-
COT	estance C. Cardes	N	Notary Public
My Commission	Expires November 16, 2013		MAY 2 3 2013

Oil and Gas Privacy Notice

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at depprivacyoffier@wv.gov.

COAL LESSEE WITH DECLARATION

COAL OPERATORS

Shannon-Pocahontas Coal Corporation
P.O. Box 16429
Bristol, Virginia 24209

Southern Minerals, Inc.
P.O. Box 770
Bluefield, West Virginia 24701

Westwood Mining Co., Inc. P.O. Box 1030 Bluefield, Virginia 24605

Marianna Coal Company
P.O. Box 1084
Bluefield, Virginia 24605

Sally Ann Coal Company, Inc. P.O. Box 770 Bluefield, West Virginia 24701

Glow Worm Coal Company 278 Dover St., P.O. Box 822 North Tazewell, Virginia 24630

Triple G Coal Company, Inc. P.O. Box 770 Bluefield, West Virginia 24701

Received

MAY 2 3 2013

Office of Oil and Gas WV Dept. of Environmental Protection WW-9 Rev. 5/10

	Page	1 of
API Number 47 -	047	- 02062
Operator's Well N	o. Poc	ahontas Land M-124

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

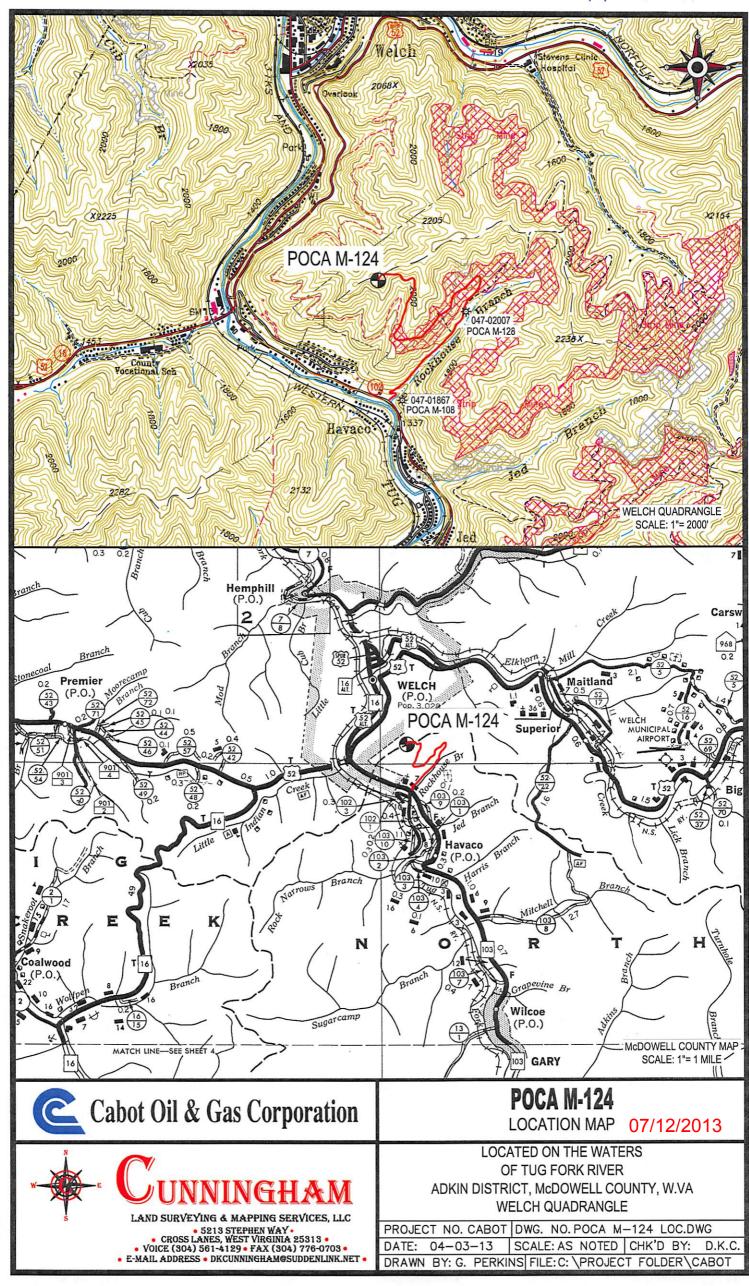
CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

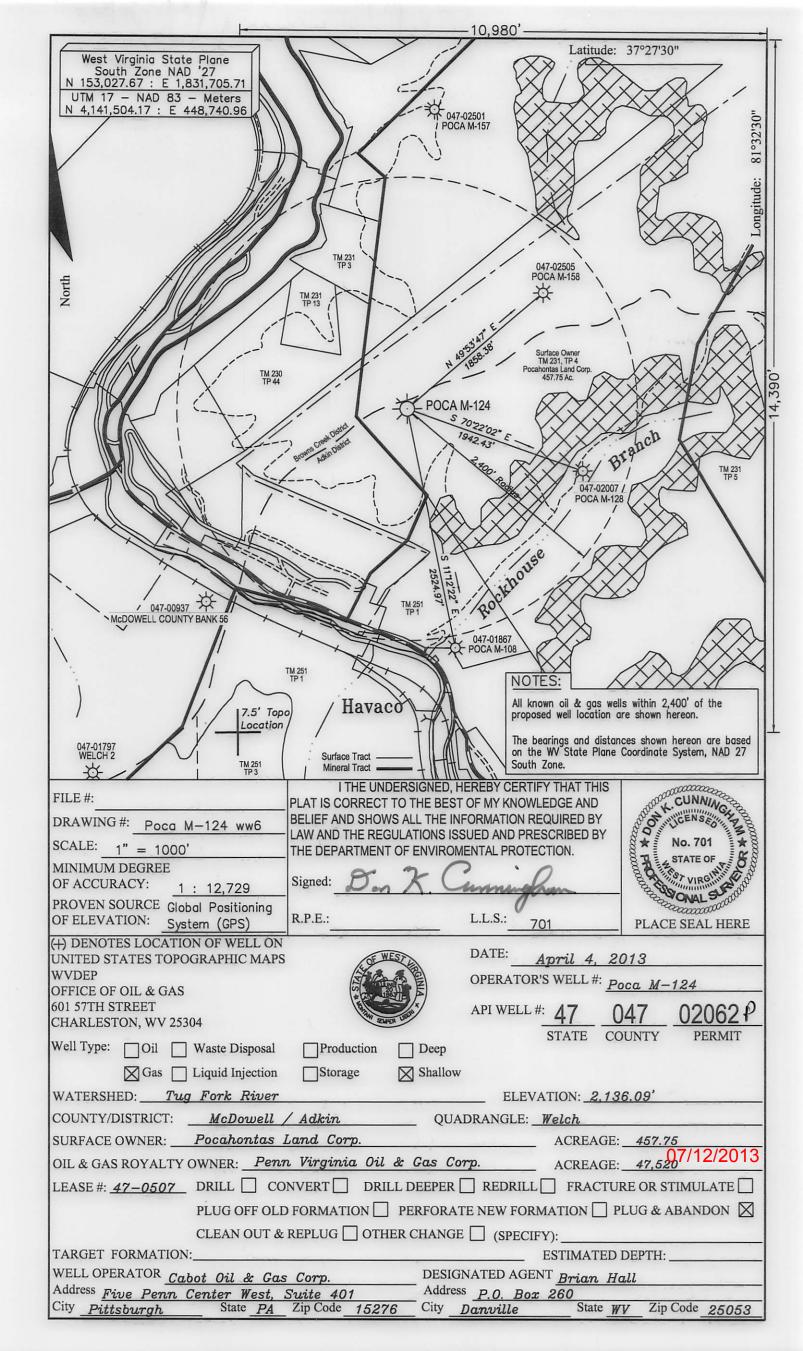
Operator Name Cabot Oil & Gas O	Corporation	OP Code
Watershed Tug Fork River	Quadrang	le _Welch
Elevation 2,136.09	County McDowell	District_ Adkin
Description of anticipated Pit Waste:	None - no cuttings produced du	ring plugging operation
Do you anticipate using more than 5,0	00 bbls of water to complete the propo	sed well work? Yes No
Will a synthetic liner be used in the pi	t? N/A . If so, what mi	1.?
Proposed Disposal Method For Treate Land Appli Undergroum Reuse (at A	d Pit Wastes: cation	al location)
-If oil based, what type? Syn Additives to be used? Drill cuttings disposal method? Leave -If left in pit and plan to solice	e in pit, landfill, removed offsite, etc. No. 11 is in pit, landfill, removed offsite, etc. No. 12 is in pit, landfill, removed offsite, etc. No. 12 is in pit, landfill, removed offsite, etc. No. 12 is in pit, landfill, removed offsite, etc. No. 12 is in pit, landfill, removed offsite, etc. No. 12 is in pit, landfill, removed offsite, etc. No. 12 is in pit, landfill, removed offsite, etc. No. 12 is in pit, landfill, removed offsite, etc. No. 12 is in pit, landfill, removed offsite, etc. No. 12 is in pit, landfill, removed offsite, etc. No. 12 is in pit, landfill, removed offsite, etc. No. 12 is in pit, landfill, removed offsite, etc. No. 12 is in pit, landfill, removed offsite, etc. No. 12 is in pit, landfill, removed offsite, etc. No. 12 is in pit, landfill, removed offsite, etc. No. 12 is in pit, landfill, removed offsite, etc. No. 12 is in pit, landfill, removed offsite, etc. No. 12 is in pit, landfill, removed offsite, etc. No. 12 is in pit, landfill, removed offsite, etc. No. 12 is in pit, landfill, removed offsite, etc. No. 12 is in pit, landfill, removed offsite, etc. No. 12 is in pit, landfill, removed offsite, etc. No. 12 is in pit, landfill, removed offsite, etc. No. 12 is in pit, landfill, removed offsite, etc. No. 12 is in pit, landfill, removed offsite, etc. No. 12 is in pit, landfill, removed offsite, etc. No. 12 is in pit, landfill, removed offsite, etc. No. 12 is in pit, landfill, removed offsite, etc. No. 12 is in pit, landfill, removed offsite, etc. No. 12 is in pit, landfill, removed offsite, etc. No. 12 is in pit, landfill, removed offsite, etc. No. 12 is in pit, landfill, removed offsite, etc. No. 12 is in pit, landfill, removed offsite, etc. No. 12 is in pit, landfill, removed offsite, etc. No. 12 is in pit, landfill, removed offsite, etc. No. 12 is in pit, landfill, removed offsite, etc. No. 12 is in pit, landfill, removed offsite, etc. No. 12 is in pit, landfill, removed offsite, etc. No. 12 is in pit, landfill, removed offsite, etc. No. 12 is in pit, landfill, removed offsite, etc. No.	o drilling proposed o cuttings produced during plugging operation nt, lime, sawdust
on August 1, 2005, by the Office of O provisions of the permit are enforced law or regulation can lead to enforced application form and all attachment obtaining the information, I believe penalties for submitting false information	il and Gas of the West Virginia Depart ble by law. Violations of any term or nent action. w that I have personally examined a sthereto and that, based on my inquitat the information is true, accurate tion, including the possibility of fine or here.	
Subscribed and sworn before me this_		Office of Oil and Gas , 20 13 ept. of Environmental Protection Notary Public
My commission expires Novem	ber 16, 2013 _{CC}	OMMONWEALTH OF PENNSYLVANIA

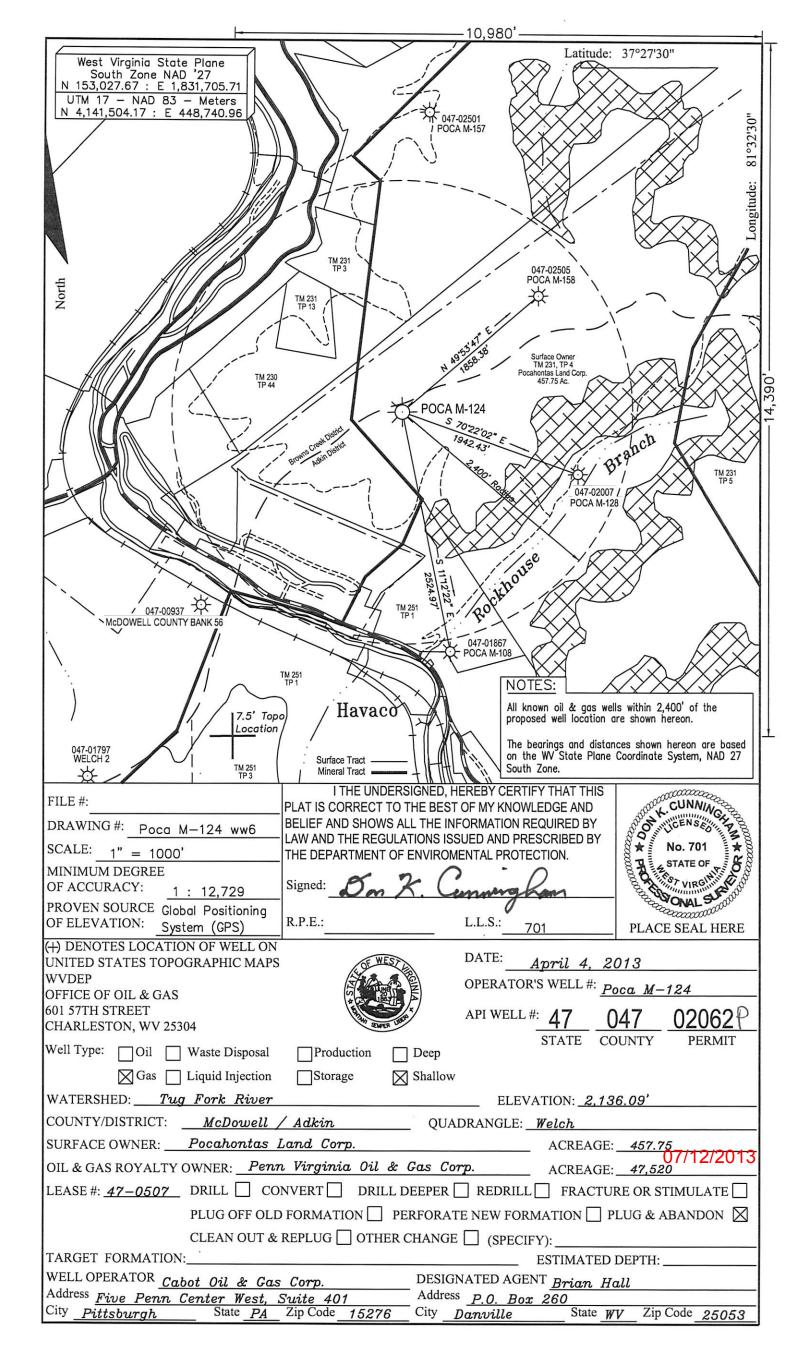
Notarial Seal

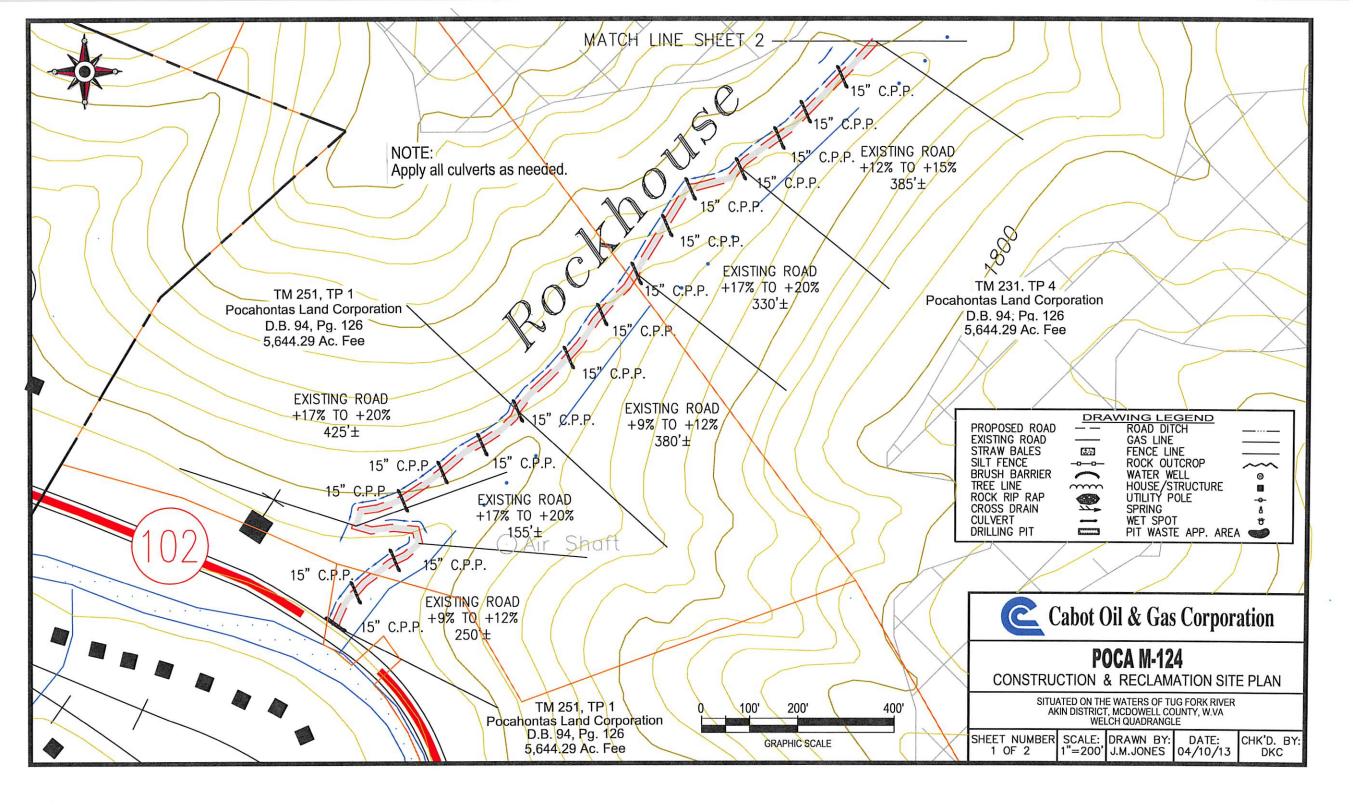
Constance C. Carden, Notary Public
McDonald Boro, Washington County
My Commission Expires Nov. 16, 2013

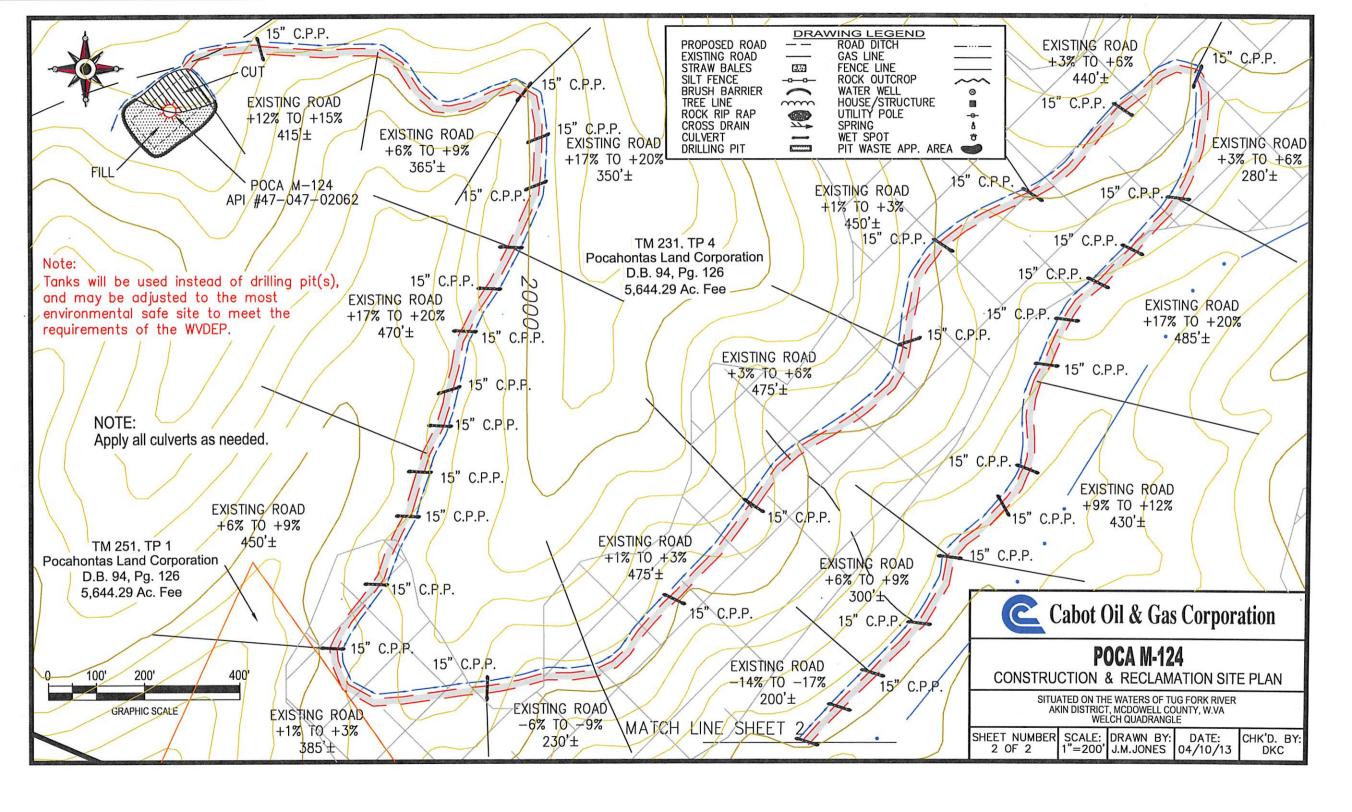
L	EGEND
Property Boundary	Diversion (L.:(LL:) LL: LL
Road = = = = = = = = = = = = = = = = = = =	Spring —
Existing Fence — X — X — X —	Wet Spot
Planned Fence / / /	Drain Pipe with size in inches (2)
Stream Stream	Waterway \longleftrightarrow \longleftrightarrow \longleftrightarrow
Open Ditch	Cross Drain
Rock # SE SE	Artificial Filter Strip
North N	Pit: cut walls
Buildings	Pit: compacted fill walls
Water wells	Area for Land Application of Pit Waste
Drill site	
Proposed Revegetation Treatment: Acres Disturbed	Prevegetation pH 6.5
Lime Tons/acre or to correct to pH	
500	
Fertilizer (10-20-20 or equivalent)lbs/a	acre (500 lbs minimum)
Mulch Pulp Fiber at 1000 to 1500 Tons/ac	re
Seed	Mixtures
Area I Seed Type Ibs/acre	Area II Seed Type lbs/acre
Grain Rye - 100 Red Clover - 5 Fescue - 40	Grain Rye - 100 Red Clover - 5 Fescue - 40
Annual Rye - 20 White Clover - 5	Annual Rye - 20 White Clover - 5
Perennial Rye - 10 Alta Sweet Clover - 5	Perennial Rye - 1 Alta Sweet Clover - 5
Yellow Clover - 5 Birdsfoot Trefoil - 10	Yellow Clover - 5 Birdsfool Trefooil - 10
Attach: Drawing(s) of road, location,pit and proposed area for land appli	cation.
Photocopied section of involved 7.5' topographic sheet.	Received
Plan Approved by:	NAT 2 3 2013
Comments:	
	Office of Oil and Gas WV Dept. of Environmental Protection
Title:	Date:











GENERAL NOTES:

THIS DRAWING REPRESENTS A SCHEMATIC REPRESENTATION OF THE PROPOSED WELL SITE AND ACCESS ROAD.
PROPOSED STRUCTURES SUCH AS THE DRILLING PIT, ROADWAY, CULVERTS, SEDIMENT BARRIERS, ETC. ARE SHOWN IN
THEIR APPROXIMATE PREPLANNING CONFIGURATION. GIVEN UNFORESEEN CIRCUMSTANCES, THE AS—BUILT LOCATION OF
THESE STRUCTURES MAY VARY SLIGHTLY FROM THE LOCATION SHOWN ON THE ATTACHED DRAWINGS.

ALL ROADS SHOWN THEREON ARE EXISTING UNLESS OTHERWISE NOTED AND SHALL BE MAINTAINED IN ACCORDANCE
WITH GUIDELINES AND REQUIREMENTS OF WEST VIRGINIA DEPARTMENT OF OIL AND GAS EROSION AND SEDIMENT CONTROL

MANUAL.

ALL CULVERTS SHOWN ON THIS DRAWING ARE PROPOSED AND WILL BE A MINIMUM OF 15" IN DIAMETER UNLESS OTHERWISE NOTED.

DITCH LINES AND CULVERTS WILL BE INSTALLED WHENEVER PRACTICAL. HOWEVER PORTIONS OF THE EXISTING/ PROPOSED ROADS WHICH ARE LOCATED IN SOLID ROCK SHALL NOT REQUIRE DITCHES OR CROSS DRAINS, UNLESS OTHERWISE WARRANTED BY FIELD CIRCUMSTANCES.

SUPPLEMENTAL DRAINAGE AND/OR SEDIMENT CONTROL STRUCTURES MEASURES IN ADDITION TO THOSE SHOWN ON THE ATTACHED DRAWINGS WILL BE INSTALLED WHEN AND WHERE DEEMED NECESSARY. SUCH ADDITIONAL MEASURES MAY CONSIST OF EITHER STRAW BALES, SILT FENCES OR OTHER MEASURES OUTLINED IN THE WEST VIRGINIA DEPARTMENT

OF OIL AND GAS EROSION AND SEDIMENT CONTROL FIELD MANUAL.

SEDIMENT BASINS (TRAPS) WILL BE CONSTRUCTED AT ALL CULVERTS AND CROSS DRAINS INLETS AS REQUIRED IN THE WEST VIRGINIA DEPARTMENT OF OIL AND GAS EROSION AND SEDIMENT CONTROL MANUAL. FIELD CONDITIONS SUCH AS ROCK OUTCROPS AND BEDROCK MAY PROHIBIT TRAPS BEING INSTALLED WHEN THESE CONDITIONS EXIST.

ADDITIONAL EROSION CONTROL MEASURES SHALL BE EVALUATED AND UTILIZED AS NEEDED.

A SEDIMENT BARRIERS OF EITHER BRUSH, STRAW BALES, FILTER FENCE, ETC. WILL BE INSTALLED AND MAINTAINED BELOW THE OUT FALL OF ALL PROPOSED CULVERTS AND AT ALL OTHER STORM WATER DRAINAGE POINTS FROM EITHER THE ROADWAY OR THE LOCATION.

ALL NECESSARY TIMBER OR BRUSH WILL BE REMOVED FROM ROUTE OF THE ROADWAY AND LOCATION BY CLEANING AND GRUBBING ACTIVITIES. ANY SALVAGEABLE TIMBER WILL BE CUT AND STACKED TO THE SIDE OF THE ROADWAY OR REMOVED TO A STOCKPILE AREA. THE REMAINING TIMBER OR BRUSH WILL BE CUTUP AND WIND ROWED BELOW THE OUTSLOPE OF THE CONTRACTION AREAS TO BE UTILIZED AS A SEDIMENT BARRIER.

SEPARATE PERMITS WILL BE OBTAINED FROM THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION FOR ALL POINT OF INGRESS AND EGRESS FROM COUNTY AND STATE ROADS. THESE INGRESS AND EGRESS POINTS WILL BE MAINTAINED IN ACCORDANCE WITH CURRENT WEST VIRGINIA DEPARTMENT OF TRANSPORTATION REGULATIONS. A STABILIZED CONSTRUCTION ENTRANCE CONSISTING OF 8" OF CRUSHED STONE WILL BE CONSTRUCTED FOR A MINIMUM DISTANCE OF 50' FROM THE INGRESS AND EGRESS OF ALL PUBLIC ROADWAYS IN ACCORDANCE WITH CURRENT WEST VIRGINIA DEPARTMENT OF TRANSPORTATION REGULATIONS.

DEPARTMENT OF TRANSPORTATION REGULATIONS.

ALL CULVERTS SHOWN ON THE ATTACHED DRAWINGS ARE TO BE CONSIDERED PERMANENT AND WILL REMAIN IN PLACE AFTER COMPLETION OF CONSTRUCTION ACTIVITIES UNLESS NOTED OTHERWISE. A STABILIZED OUTLET CONTROL DEVICE SUCH AS RIP RAP, NATURAL STONE, BRUSH, ETC. WILL BE INSTALLED BELOW THE OUT FALL OF ANY ROADWAY CULVERT(S) WHICH ARE NOT LOCATED IN A STREAM OR CREEK.

PERMANENT CROSS DRAINS OR WATER BARS WILL BE INSTALLED AS AN INTEGRAL PART OF THE RECLAMATION PROCESS AND SHALL BE SPACED IN ACCORDANCE WITH AS—BUILT ROADWAY SLOPES AND TABLE 11—4 OF THE WEST VIRGINIA DEPARTMENT OF OIL AND GAS EROSION AND SEDIMENT CONTROL FIELD MANUAL.

TEMPORARY SEEDING AND MULCHING WILL BE UTILIZED TO PROVIDE A VEGETATIVE COVER ON ALL DISTURBED AREAS I.E. ROADWAYS, LOCATION, ROAD/LOCATION SLOPES AND ANY OTHER AREAS THAT ARE DISTURBED BY CONSTRUCTION ACTIVITIES

ACTIVITIES.

THE LOCATION OF DRILLING PIT(S) MAY BE ADJUSTED TO THE MOST ENVIRONMENTAL SAFE SITE TO MEET THE REQUIREMENTS OF THE WVDEP.

CONTRACTORS NOTE:

IT IS THE RESPONSIBILITY OF THE CONSTRUCTION CONTRACTOR TO FIELD VERIFY THE EXACT LOCATION AND CONDITION OF ALL UNDERGROUND UTILITIES, SANITARY SEWERS, STORM SEWERS, ETC. PRIOR TO THE COMMENCEMENT OF ANY/OR CONSTRUCTION ACTIVITIES. DIG WITH C.A.R.E. CALL MISS UTILITY 1-800-245-4848.

TABLE 11-4 SPACIN	G OF CROSS DRAINS
ROAD GRADE (%)	DISTANCE (FT)
1	400
2	250
5	135
10	80
15	60
20	45

TABLE 11-7 SPACING OF CULVERTS				
ROAD GRADE (%)	DISTANCE (FT)			
2-5	500-300			
6-10	300-200			
11-15	200-100			
16-20	100			



1-800-245-4848

DRAWING LEGEND

PROPOSED ROAD STRAW BALES ... FENCE BRUSH BARRIER TREE LINE ROCK RIP RAP CROSS DRAIN CULVERT DRILLING PIT ROAD DITCH GAS LINE
FENCE LINE
ROCK OUTCROP
WATER WELL
HOUSE/STRUCTURE
UTILITY POLE (0) 龖 SPRING WET SPOT PIT WASTE APP. AREA

DRIVING DIRECTIONS FOR POCA #,-124

- FROM WELCH, W.VA DRIVE SOUTH ON STATE ROUTE 16 FOR 1.1 MILES± TO INTERSECTIOM OF STATE ROUTE 52 AND 1.) SECONDARY ROUTE 102.
- TAKE SECODARY ROUTE 102 SOUTH 0.7 MILES \pm TO THE BEGINNING OF QN EXISTING ACCESS ROAD FOR POCA M-124, LOCATED ON THE LEFT-HAND SIDE OF THE ROAD. 2.)
- TURN LEFT ONTO THE EXISTING ACCESS ROAD AND GO FOR 1.5 MILES± TO THE EXISTING WELL SITE OF POCA M-124 AS SHOWN ON THE "CONSTRUCTION AND RECLAMATION PLAN".

07/12/2013

MAY 2 3 2013

Office of Oil and Gas WV Dept. of Environmental Protection





May 22, 2013

Chief West Virginia Division of Environmental Protection Office of Oil & Gas 601 57th Street Charleston, WV 25304

RE: Pocahontas Land M-124

Adkin District, McDowell County, WV

API # 47-047-02062

Written Application to plug and abandon wellbore

Dear Chief:

In accordance with Article 22-6-23 of the Code of State Regulations regarding oil and gas operations, please find attached a formal application for the plug and abandonment of the subject well.

Notices of our intention to plug this wellbore have been sent to surface owner, coal owner, and coal operators associated with this well. Copies of the certified mail receipts are attached for your records.

If you have any questions or need additional information, I can be reached at 412-249-3850.

Sincerely,

Kenneth L. Marcum

Kennet Mary

Regulatory Supervisor

Received

MAY 2 3 2013

Office of Oil and Gas
WV Dept. of Environmental Protection